

AUTHOR INDEX

- Abdul, M. A., 193
 Andres, M. V., 417
 Angell, J. B., 427
 Armand, M., 1
- Baltes, H. P., 325
 Barth, P. P., 427
 Bayle, C., 399
 Bouwstra, S., 153
 Brett, M. J., 325
- Canqian Yang, 51
 Cauhapé, J. S., 399
 Chavanne, D., 193
 Coccoli, G., 235
 Collings, M. S., 359
- Daniels, P. B., 11
 Deacon, J. K., 11
- Eddowes, M. J., 11
 El Yamani, H., 193
 Evans, A. G. R., 257
 Ewen, R. J., 359
- Fabry, P., 1, 33
 Foulds, K. W. H., 417
 Fraser, D. E., 325
 Fray, D. J., 185
 French, P. J., 119, 257
 Frindt, R. F., 105
- Gabriel, K. J., 95
 Gayet, H., 387
 Giuliani, J. F., 25
 Groppelli, S., 235
 Gros, J. P., 33
- Hill, C. A. S., 359
 Ho, M. H., 445
 Honeybourne, C. L., 359
- Huijsing, J. H., 119, 135
 Hykaway, N., 105
- Jin, H., 337
- Karube, I., 199, 435
 Kemmer, J. A., 169
 Kimura, J., 435
 Kinjo, N., 375
 Kleitz, M., 33
 Kumar, R. V., 185
 Kümmel, M., 51
 Kuriyama, T., 435
- Lam, L. K. C., 337
 Lantto, V., 347
 Leppävuori, S., 347
 Lian, W. J., 119
 Lucat, C., 399
 Lukosz, W., 273, 285
- Mari, C. M., 19
 Meierhöfer, I., 211
 Ménil, F., 399
 Middelhoek, S., 119
 Million-Brodaz, J. F., 33
 Mohan, S., 297
 Montero-Ocampo, C., 1
 Moritz, W., 211
 Morrison, S. Roy, 105
 Müller, L., 211
 Muller, R. S., 63
 Murakami, T., 435
- Nagai, M., 145
 Nani, G., 243
 Nellen, Ph. M., 285
 Nishino, T., 145
- Ohara, S., 375
- Parameswaran, M., 325
 Pedley, D. G., 11
- Portier, J., 399
 Posch, H. E., 77
- Rajanna, K., 297
 Robinson, A. M., 325
 Romppainen, P., 347
- Saeki, T., 145
 Sberveglieri, G., 235
 Sears, W. M., 105
 Seifert, M., 309
 Senturia, S. D., 221
 Silard, A. P., 243
 Smith, R. L., 221
 Sjöberg, H., 51
 Spohn, P. K., 309
 Sugawara, T., 375
- Tamiya, E., 199
 Terzaghi, G., 19
 Tiefenthaler, K., 273, 285
 Tran-Minh, C., 193
 Trimmer, W. S. N., 95
 Tsuchitani, S., 375
 Tsunoda, T., 375
 Tudor, M. J., 417
- van de Pol, F. C. M., 153
 van Lintel, H. T. G., 153
 van Oudheusden, B. W., 135
- Walker, J. A., 95
 Wolfbeis, O. S., 77
- Yee, S., 337
 Yu, L. T., 387
 Yu-Chong Tai, 63
- Zdeblick, M. J., 427
 Zhang Weixin, 85
 Zhao Yibing, 85

AUTHOR INDEX

- Abdul, M. A., 193
 Andres, M. V., 417
 Angell, J. B., 427
 Armand, M., 1
- Baltes, H. P., 325
 Barth, P. P., 427
 Bayle, C., 399
 Bouwstra, S., 153
 Brett, M. J., 325
- Canqian Yang, 51
 Cauhapé, J. S., 399
 Chavanne, D., 193
 Coccoli, G., 235
 Collings, M. S., 359
- Daniels, P. B., 11
 Deacon, J. K., 11
- Eddowes, M. J., 11
 El Yamani, H., 193
 Evans, A. G. R., 257
 Ewen, R. J., 359
- Fabry, P., 1, 33
 Foulds, K. W. H., 417
 Fraser, D. E., 325
 Fray, D. J., 185
 French, P. J., 119, 257
 Frindt, R. F., 105
- Gabriel, K. J., 95
 Gayet, H., 387
 Giuliani, J. F., 25
 Groppelli, S., 235
 Gros, J. P., 33
- Hill, C. A. S., 359
 Ho, M. H., 445
 Honeybourne, C. L., 359
- Huijsing, J. H., 119, 135
 Hykaway, N., 105
- Jin, H., 337
- Karube, I., 199, 435
 Kemmer, J. A., 169
 Kimura, J., 435
 Kinjo, N., 375
 Kleitz, M., 33
 Kumar, R. V., 185
 Kümmel, M., 51
 Kuriyama, T., 435
- Lam, L. K. C., 337
 Lantto, V., 347
 Leppävuori, S., 347
 Lian, W. J., 119
 Lucat, C., 399
 Lukosz, W., 273, 285
- Mari, C. M., 19
 Meierhöfer, I., 211
 Ménil, F., 399
 Middelhoek, S., 119
 Million-Brodaz, J. F., 33
 Mohan, S., 297
 Montero-Ocampo, C., 1
 Moritz, W., 211
 Morrison, S. Roy, 105
 Müller, L., 211
 Muller, R. S., 63
 Murakami, T., 435
- Nagai, M., 145
 Nani, G., 243
 Nellen, Ph. M., 285
 Nishino, T., 145
- Ohara, S., 375
- Parameswaran, M., 325
 Pedley, D. G., 11
- Portier, J., 399
 Posch, H. E., 77
- Rajanna, K., 297
 Robinson, A. M., 325
 Romppainen, P., 347
- Saeki, T., 145
 Sberveglieri, G., 235
 Sears, W. M., 105
 Seifert, M., 309
 Senturia, S. D., 221
 Silard, A. P., 243
 Smith, R. L., 221
 Sjöberg, H., 51
 Spohn, P. K., 309
 Sugawara, T., 375
- Tamiya, E., 199
 Terzaghi, G., 19
 Tiefenthaler, K., 273, 285
 Tran-Minh, C., 193
 Trimmer, W. S. N., 95
 Tsuchitani, S., 375
 Tsunoda, T., 375
 Tudor, M. J., 417
- van de Pol, F. C. M., 153
 van Lintel, H. T. G., 153
 van Oudheusden, B. W., 135
- Walker, J. A., 95
 Wolfbeis, O. S., 77
- Yee, S., 337
 Yu, L. T., 387
 Yu-Chong Tai, 63
- Zdeblick, M. J., 427
 Zhang Weixin, 85
 Zhao Yibing, 85

SUBJECT INDEX

- Amperometric measurement
 - integrated multibiosensor for simultaneous and potentiometric measurement, 435
- Amplifier
 - microminiature fluidic, 427
- Automated system
 - for pesticide detection, 193
- Biochemical sensor(s)
 - integrated optical input grating couplers as, 285
 - sensitivity of integrated optical grating and prism couplers as, 273
- Biosensor(s)
 - integrated multi-, for simultaneous amperometric and potentiometric measurement, 435
 - micro-, for clinical analyses, 199
 - potentiometric, based on immobilized enzyme membrane and fluoride detection, 445
- Bismuth molybdate
 - evaporated films, gas-sensing properties of, 105
- Calcium
 - semiconductor oxides $\text{Sr}_{1-y}\text{Ca}_y\text{Fe}_{3-x}$ ($0 < y < 1$; $0.19 < x < 0.50$), role of mineral binder in sensing properties of screen-printed layers of, 399
- Carbon monoxide
 - gas sensor comprising porous hydroxy-apatite ceramics, new type, 145
- Carbon monoxide/carbon dioxide
 - gas mixtures, determination of composition of; solid-state O meter equipped with CeO_{2-x} thick-film electrode, 19
- Chemical sensors
 - (bio), sensitivity of integrated optical grating and prism couplers as, 273
- Chemical vapor microsensors
 - integrated optical, 25
- Cerium
 - solid-state O meter equipped with CeO_{2-x} thick-film electrode; determination of composition of CO/CO_2 gas mixtures, 19
- Clinical analyses
 - micro-biosensors for, 199
- CMOS technology
 - capacitive humidity sensor based on, with adsorbing film, 325
- Digital or frequency output
 - sensors with, 119
- Electrode(s)
 - CeO_{2-x} thick-film, solid-state O meter equipped with; determination of composition of CO/CO_2 gas mixtures, 19
 - miniature liquid junction reference, with micromachined Si cavity, 337
 - solid-state Na^+ -selective, ionic conductor for, NASICON, 33
- Electrolyte
 - polymer, as internal ionic bridge for ion solid-state sensors, 1
- Energy signals
 - bifacial, large-area Si sensors for radiative, 243
- Enzyme membrane
 - potentiometric biosensor based on immobilized, and fluoride detection, 445
- Flow friction sensor
 - integrated, 135
- Flow meter
 - lightly-doped polysilicon bridge as, 63
 - self-heated thermistor, for small liquid flow in microchannels, 51
- Fluorescence quenching
 - optical sensors; fibre-optic humidity sensor based on, 77
- Fluoride detection
 - potentiometric biosensor based on immobilized enzyme membrane and, 445
- Fluoride-sensitive membrane
 - for ISFETs, 211
- Frequency output
 - sensors with digital or, 119

- Si pressure sensor, sensitivity and mode spectrum of, 417
- Gas captors
 - application of linear potential sweep voltammetry (LPSV) to make; conditions of detection of unsaturated hydrocarbons, 387
- Gas detection
 - toxic, thin films of conjugated macrocyclic ligands for, 359
- Gas mixtures
 - CO/CO₂, determination of composition of; solid-state O meter equipped with CeO_{2-x} thick-film electrode, 19
- Gas-sensing properties
 - of Bi molybdate evaporated films, 105
- Gas sensor(s)
 - CO₂, comprising porous hydroxyapatite ceramics, 145
 - NO₂, radio frequency magnetron sputtering growth and characterization of In-Sn oxide (ITO) thin films for, 235
 - response studies of some semiconductor, under different experimental conditions, 347
- Grating couplers
 - integrated optical input, as biochemical sensors, 285
 - interaction of aqueous solutions with, used as integrated optical sensors and their pH behaviour, 309
 - sensitivity of integrated optical, and prism couplers as (bio)chemical sensors, 273
- Humidity sensor(s)
 - capacitive, based on CMOS technology with adsorbing film, 325
 - fibre-optic, based on fluorescence quenching, 77
 - using ionic copolymer and its application to humidity-temperature sensor module, 375
- Hydrogen sensors
 - development of solid-state, 185
- Hydrogen sulphide
 - temperature characteristics of H₂S-sensitive Pd-gate MOS transistor, 85
- Hydroxyapatite ceramics
 - new type of CO₂ gas sensor comprising porous, 145
- Immunosensing
 - surface plasmon resonance applied to, 11
- Indium
 - tin oxide (ITO) thin films for NO₂ gas sensors, radio frequency magnetron sputtering growth and characterization of, 235
- Ion solid-state sensors
 - polymer electrolyte as internal ionic bridge for, 1
- Ionic bridge
 - polymer electrolyte as internal, for ion solid-state sensors, 1
- Ionic conductor
 - for solid-state Na⁺-selective electrode, NASICON, 33
- Ionic copolymer
 - humidity sensor using, and its application to humidity-temperature sensor module, 375
- Iron
 - semiconductor oxides Sr_{1-y}Ca_yFe_{3-x} (0 < y < 1; 0.19 < x < 0.50), role of mineral binder in sensing properties of screen-printed layers of, 399
- ISFETs
 - fluoride-sensitive membrane for, 211
- Linear potential sweep voltammetry
 - application of LPSV to make gas captors; conditions of detection of unsaturated hydrocarbons, 387
- Liquid flow
 - in microchannels, self-heated thermistor flowmeter for small, 51
- Liquid junction reference electrode
 - with micromachined Si cavity, miniature, 337
- Macrocyclic ligands
 - thin films of conjugated, for toxic gas detection, 359
- Meandering path thin-film strain gauge
 - studies on, 297
- Micro-biosensors
 - for clinical analyses, 199
- Microminiature fluidic amplifier, 427
- Micropump
 - piezoelectric, based on micromachining of Si, 153
- Micro rotary actuator
 - using shape memory alloys, 95
- Microsensor(s)
 - integrated optical chemical vapor, 25

- packaging and system partitioning, 221
- Mineral binder
 - role of, in sensing properties of screen-printed layers of semiconductor oxides $\text{Sr}_{1-y}\text{Ca}_y\text{FeO}_{3-x}$ ($0 < y < 1$; $0.19 \leq x < 0.50$), 399
- MOS transistor
 - temperature characteristics of H_2S -sensitive Pd-gate, 85
- Multibiosensor
 - integrated, for simultaneous amperometric and potentiometric measurement, 435
- NASICON
 - ionic conductor for solid-state Na^+ -selective electrode, 33
- Nitrogen dioxide
 - gas sensors, radio frequency magnetron sputtering growth and characterization of In-Sn oxide (ITO) thin films for, 235
- Nuclear radiation
 - Si detectors for, 169
- Optical chemical vapor microsensors
 - integrated, 25
- Optical input grating couplers
 - integrated, as biochemical sensors, 285
- Optical sensor(s)
 - fibre-optic humidity sensor based on fluorescence quenching, 77
 - interaction of aqueous solutions with grating couplers used as, and their pH behaviour, 309
- Oxygen meter
 - solid-state, equipped with CeO_{2-x} thick-film electrode; determination of composition of CO/CO_2 gas mixtures, 19
- Palladium
 - temperature characteristics of H_2S -sensitive Pd-gate MOS transistor, 85
- Pesticide detection
 - automated system for, 193
- pH behaviour
 - interaction of aqueous solutions with grating couplers used as integrated optical sensors and their, 309
- Piezoelectric micropump
 - based on micromachining of Si, 153
- Piezoresistance
 - polysilicon strain sensors using shear, 257
- Plasmon resonance
 - surface, applied to immunosensing, 11
- Polymer electrolyte
 - as internal ionic bridge for ion solid-state sensors, 1
- Polysilicon bridge
 - lightly-doped, as flow meter, 63
- Polysilicon strain sensors
 - using shear piezoresistance, 257
- Potentiometric biosensor
 - based on immobilized enzyme membrane and fluoride detection, 445
- Potentiometric measurement
 - integrated multibiosensor for simultaneous amperometric and, 435
- Pressure sensor
 - Si, sensitivity and mode spectrum of frequency-output, 417
- Prism couplers
 - sensitivity of integrated optical grating and, as (bio)chemical sensors, 273
- Radiative energy signals
 - bifacial, large-area Si sensors for, 243
- Response studies
 - of some semiconductor gas sensors under different experimental conditions, 347
- Semiconductor gas sensors
 - response studies of, under different experimental conditions, 347
- Semiconductor oxides
 - $\text{Sr}_{1-y}\text{Ca}_y\text{FeO}_{3-x}$ ($0 < y \leq 1$; $0.19 \leq x < 0.50$), role of mineral binder in sensing properties of screen-printed layers of, 399
- Sensing properties
 - of screen-printed layers of semiconductor oxides $\text{Sr}_{1-y}\text{Ca}_y\text{FeO}_{3-x}$ ($0 < y \leq 1$; $0.19 \leq x < 0.50$), role of mineral binder in, 399
- Shape memory alloys
 - micro rotary actuator using, 95
- Silicon
 - miniature liquid junction reference electrode with micromachined Si cavity, 337
 - piezoelectric micropump based on micromachining of, 153
 - polysilicon strain sensors using shear piezoresistance, 257
- Silicon detectors
 - for nuclear radiation, 169

- Silicon pressure sensor
 - sensitivity and mode spectrum of frequency-output, 417
- Silicon sensors
 - for radiative energy signals, bifacial large-area, 243
- Sodium
 - NASICON, ionic conductor for solid-state Na^+ -selective electrode, 33
- Solid-state hydrogen sensors
 - development of, 185
- Solid-state Na^+ -selective electrode
 - ionic conductor for, NASICON, 33
- Solid-state oxygen meter
 - equipped with CeO_2-x thick-film electrode; determination of composition of CO/CO_2 gas mixtures, 19
- Solid-state sensors
 - ion, polymer electrolyte as internal ionic bridge for, 1
- Sputtering growth
 - radio frequency magnetron, and characterization of In-Sn oxide (ITO) thin films for NO_2 gas sensors, 235
- Strain gauge
 - studies on meandering path thin-film, 297
- Strain sensors
 - polysilicon, using shear piezoresistance, 257
- Strontium
 - semiconductor oxides $\text{Sr}_{1-y}\text{Ca}_y\text{FeO}_{3-x}$ ($0 < y < 1$; $0.19 < x < 0.50$), role of mineral binder in sensing properties of screen-printed layers of, 399
- Surface plasmon resonance
 - applied to immunosensing, 11
- System partitioning
 - microsensor packaging and, 221
- Temperature
 - humidity-, sensor module, humidity sensor using ionic copolymer and its application to, 375
- Temperature characteristics
 - of H_2S -sensitive Pd-gate MOS transistor, 85
- Tin oxide
 - In-, (ITO) thin films for NO_2 gas sensors, radio frequency magnetron sputtering growth and characterization of, 235
- Toxic gas detection
 - thin films of conjugated macrocyclic ligands for, 359
- Unsaturated hydrocarbons
 - conditions of detection of; application of linear potential sweep voltammetry (LPSV) to make gas captors, 387

